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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/663,989	09/18/2000	Robert Charles Susil	55106 (71699)	4542	
75	590 06/19/2002				
Dike, Bronstein, Roberts & Cushman			EXAMINER		
Intellectual Pro EDWARDS &	perty Practice Group ANGELL		SHAH, DEVAANG		
P.O. Box 9169 Boston, MA 0	2209		ART UNIT PAPER NUMBER 3737		
200001,11111					
			DATE MAILED: 06/19/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)			
	09/663,989	SUSIL ET AL.	\mathcal{O}_{I}		
Office Action Summary	Examiner	Art Unit			
	Devaang Shah	3737			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence addre	ess		
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ti within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fron cause the application to become ABANDON	mely filed ys will be considered timely. the mailing date of this comm ED (35 U.S.C. § 133).	nunication.		
1) Responsive to communication(s) filed on 20 L	December 2002 .				
· <u> </u>	is action is non-final.				
3) Since this application is in condition for allowed closed in accordance with the practice under			nerits is		
Disposition of Claims					
4) \boxtimes Claim(s) <u>1-42</u> is/are pending in the application					
4a) Of the above claim(s) is/are withdraw	vn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-7,10,13-21,30-34,37 and 39-42</u> is/are rejected.					
7)⊠ Claim(s) <u>8,9,11,12,22-29,35,36 and 38</u> is/are o	bjected to.				
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine					
10) \boxtimes The drawing(s) filed on <u>20 December 2002</u> is/a	re: a)⊠ accepted or b)☐ objected	to by the Examiner.			
Applicant may not request that any objection to the	•	, ,			
11) The proposed drawing correction filed on		oved by the Examiner.			
If approved, corrected drawings are required in rep	•				
12) The oath or declaration is objected to by the Ex	aminer.				
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents	s have been received.				
2. Certified copies of the priority documents	s have been received in Applicat	ion No			
 Copies of the certified copies of the prior application from the International But * See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).		age		
14) Acknowledgment is made of a claim for domesti	c priority under 35 U.S.C. § 119((e) (to a provisional ap	pplication).		
a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesti	visional application has been red	ceived.	,		
Attachment(s)	- p. 1011. 33 121	- and or the L			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s). Patent Application (PTO-19			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 1-7, 10, 13-21, 30-34, 37, 39, and 40-42 are rejected under 35
 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,318,025 to Dumoulin et al.

 Dumoulin et al. disclose a tracking system to monitor the position and orientation of a device such as a catheter by using magnetic resonance detection. The magnetic resonance scanner used is capable of providing cross-sectional images.

As shown in figures 2a and 2b, the flexible device contains intermediate sensors (200b-200n) and a sensor proximate the distal tip (200a). The sensors are RF coils that detect MR signals that are generated in response to a controlled three-dimensional magnetic field generated by a set of magnetic field gradient coils. Signals detected by the sensors are transmitted to the system through conductors (columns 3-6). Processing and calculating means provide the identifiable points (positions) for all of the coils (200a-200n), and determine the unique orientation of the device within its range of motion from the calculated positions. The results are displayed as an image representing the device's position and orientation (column 6, lines 44-68; column 7, lines 1-2). As shown in figure 1, the operator uses image display (180) to manipulate the medical instrument.

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Response to Arguments

2. Applicant's arguments have been fully considered but Examiner disagrees with the arguments set forth. Applicant argues that "in Dumoulin the generation of cross-sectional images and the particular imaging technique for generating such images is completely separate from the technique and process utilized to track or localize the device within the subject that is described and taught in Dumoulin." Applicant claims "An imaging system for invasive therapy of a patient, the system comprising:

an imaging apparatus that can provide a cross-sectional image of a patient;

a medical instrument comprising a fiducial object that can be imaged in the same image as a targeted site of the patient."

Imaging is simply the action or process of producing an image, especially by means other than visible light. Use of the term "imaging" does not automatically imply that all elements are acquired simultaneously. It means that an image containing all elements is produced. Applicant does not claim simultaneous acquisition of anything. Dumoulin utilizes magnetic resonance imaging, which results in production of tomographic images.

Allowable Subject Matter

3. Claims 8, 9, 11, 12, 22-29, 35, 36, and 38 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Devaang Shah whose telephone number is 703-306-0333. The examiner can normally be reached on M-F, 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marvin Lateef can be reached on 703 308-3256. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3590 for regular communications and 703-308-0758 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0858.

DS //>
March 19, 2003

Supervisory Patent Examiner

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Group 3700